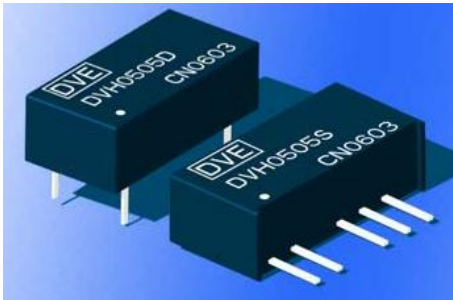




DVH Series
Isolated 2W Dual Output DC-DC Converters



FEATURES

- High Efficiency up to 87%
- Positive & Negative Voltage Output
- SIP & DIP Package Style
- Industry Standard Pinout
- UL 94V-0 Package Material
- No Heatsink required
- 1kVDC Isolation
- Full 2 watt output power
- Power Density up to 1.42W/cm³
- Temperature Range -40°C to 85°C
- No External Components Required
- MTTF>3,500,000 hours

APPLICATIONS

The DVH Series are specially designed for applications where a group of polar power supplies are isolated from the input power supply in a distributed power supply system on a circuit board.

These products apply to:

- 1) Where the voltage of the input power supply is fixed (voltage variation $\leq \pm 10\%$);
- 2) Where isolation is necessary between input and output (isolation voltage = 1000VDC);
- 3) Where the regulation of the output voltage and the output ripple noise are not demanding.

Such as: purely digital circuits, ordinary low frequency analog circuits, and IGBT power device driving circuits.

SELECTION GUIDE						
	Nominal Input Voltage	Rated Output Voltage	Output Current		Efficiency	Package Style
			Min	Max		
Order Code	(V)	(V)	(mA)	(mA)	(%, Typ)	
DVH0505S/D	5	±5	±20	±200	82	SIP/DIP
DVH0509S/D	5	±9	±12	±111	83	SIP/DIP
DVH0512S/D	5	±12	±9	±83	85	SIP/DIP
DVH0515S/D	5	±15	±7	±67	85	SIP/DIP
DVH1205S/D	12	±5	±20	±200	83	SIP/DIP
DVH1209S/D	12	±9	±12	±111	84	SIP/DIP
DVH1212S/D	12	±12	±9	±83	86	SIP/DIP
DVH1215S/D	12	±15	±7	±67	86	SIP/DIP
DVH2405S/D	24	±5	±20	±200	84	SIP/DIP
DVH2409S/D	24	±9	±12	±111	85	SIP/DIP
DVH2412S/D	24	±12	±9	±83	87	SIP/DIP
DVH2415S/D	24	±15	±7	±67	87	SIP/DIP
DVH4805S/D	48	±5	±20	±200	82	SIP/DIP
DVH4809S/D	48	±9	±12	±111	83	SIP/DIP
DVH4812S/D	48	±12	±9	±83	85	SIP/DIP
DVH4815S/D	48	±15	±7	±67	85	SIP/DIP

INPUT CHARACTERISTICS					
Parameter	Conditions	MIN	TYP	MAX	Units
Voltage Range	All DVH05 Types	4.5	5	5.5	VDC
	All DVH12 Types	10.8	12	13.2	
	All DVH24 Types	21.6	24	26.4	
	All DVH48 Types	43.2	48	52.8	

OUTPUT CHARACTERISTICS					
Parameter	Conditions	MIN	TYP	MAX	Units
Output Power	See Below Products Program	0.2		2	W
Output Voltage Accuracy	See tolerance envelope graph				
Line Regulation	For V _{IN} change of 1%			1.2	%
Load Regulation	10% To 100% full Load		10	15	%
Temperature Drift	100% full load			0.03	%/°C
Temperature Rise	Full load		15	25	°C
Ripple	B/W=DC to 20MHz		100	150	mV p-p

ABSOLUTE MAXIMUM RATINGS	
Short-circuit protection	1 second
Lead temperature 1.5mm from case for 10 seconds	300°C

1 All specifications measured at TA=25°C, humidity<75%, nominal input voltage and rated output load unless otherwise specified.

2 See below recommended circuits for more details.

